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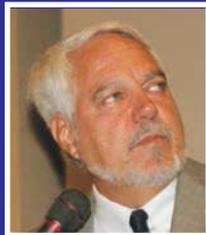
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## Bio S.I. Technology Helps Potato Farmers Rebuild, Restore, and Renew Profits

As the world's fourth largest food crop, potatoes are a critical staple for the United States' agricultural industry. Representing diverse regions and climates, potato growers are faced with unique conditions and challenges which are specific to their own fields. While known for their resilience and robustness, potato crops have a fickle growing process that requires a high degree of attentiveness.

Potato growers face many obstacles during the growing season. Bio S.I. Technology produces microbial products that are used to help combat many of those obstacles. Disease suppression, nutrient availability, stubble digestion, and pest management are key areas these products can help with. Bio S.I. products do not eliminate these issues but they do a great deal to help reduce their effect on crops. We must start working with our soils to promote microbial life so that the soils will be able to produce healthy vigorous crops that make a profit.

Microbes are the key to helping remove the plant stubble from the previous crop. They digest this material and recycle the nutrients that you have already paid for and make them available to your next crop. They convert all this material into humus which is what holds water and nutrients in the soil. They provide the only way to rebuild the humus (carbon) in your fields. Pests are another area that microbes can help with. The microbes help the plant get the nutrients they need to be healthy and to increase the sugar content of the sap in the plant. Many sucking insects can't metabolize this

increased sugar and will move on to the next field reducing the need for pesticides in some cases.



Healthy root systems get plants off to a fast start. Bio S.I. Ag Formula and Bio S.I. Select with Mycorrhizae (beneficial fungi) help the plant produce a tremendous root system which improves nutrient uptake. As the microbes align with the roots they not only feed the plant but also help protect the root system from fusarium, rhizoctonia, pythium, and other root diseases. They do this by competing for space and food in the rhizosphere because they work with the plant forming a symbiotic relationship that is beneficial to both. This activity helps to keep pathogens away from the roots. You will be able to reduce the amount of fungicides over time as the microbial community is improved.

Another area that microbes are a

tremendous benefit is in the nutrient arena. They process or metabolize nutrients and make them available to your crop. They help release nutrients that are tied up in the soil in forms unavailable to the plant. This activity helps the plant utilize nutrients they would not normally get in a timely fashion for growth and production.

Many growers have soil issues that plague the crop stand like crusting, poor water penetration, and hard compacted soil. Microbes help reduce crusting, open the soil so water can go into the soil versus running off, and also help to aerate the soil making it softer and easier to work. As the microbes rebuild the humus fraction of the soil you will see a reduction in irrigation needs and this is becoming a critical issue all over the country.



Products produced by Bio S.I. Technology are all natural, non-manure based, and are soil borne. They work naturally to help plants get the nutrients they need in exchange for sugars from the plant. So they work together to improve quality and vigor of the plant.

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# Managing Potato Soils.

Larry Zibilske, Ph.D., Vice-President of Research, Texas Plant & Soil Lab

Noel Garcia, C.C.A., Vice-President of Operations and Technical Director, Texas Plant & Soil Lab

**The Potato** is one of those crops that usually requires mechanically breaking the ground to manage. Soil is moved around the plant during the season with hilling operations to enhance aeration, to ensure hiding the developing tubers from sunlight, to incorporate in-season fertilizers, and for weed control. The downside to these activities is that they can degrade the soil, especially by promoting organic matter decomposition, seriously damaging essential soil biology and destroying soil structure. Potato soils often become depleted in vital nutrients. To make up for these losses, fertilizers are added, sometimes with other amendments, to help ensure good yields of high quality potatoes. However, fertilizing *efficiently* is not a simple task.

Potato roots absorb nutrients available in the root zone, whether from fertilizer additions or from natural soil sources. More and more, plants depend on fertilizer sources to supply the needed elements for development from our generally depleted soils. The problem is that fertilizer nutrients are often supplied in excessive amounts and at the **wrong time**. Plants naturally take up nutrients in a *balanced* way - taking in Nitrogen, Phosphorus, Potassium, and *other essential nutrients* as a nutrient “alphabet soup” – but on a growing-season “timetable”. Additionally, an excess of a particular nutrient

often reduces the uptake of others, resulting in abnormal development and reduced functioning of the plant.

Excessive amounts of N, P, and K are often added in one or two applications during the season. These may not appear to be excessive in terms of the total nutrient needs of the crop, but only a portion of that total is needed and can be taken-up by the plants at any one time. *Timing, form, amount, method and placement* of fertilization, coordinated with the critical stages of potato physiological development, are all critical for *Maximum Economic Yield*. Accordingly, you might consider how you might change your fertility program to provide what your crop needs at its particular stage of growth. *And don't dismiss the recently-developed biological and plant-available elemental adjuncts/inoculants – they can be amazingly effective – in a variety of ways!*

Managing the potato crop by judicious application of nutrients has been proven to result in significantly better yields of higher quality potatoes – not in limited and carefully-controlled trial fields – but in the real commercial world. Leaf petioles taken at critical times during the season are a good guide to in-season fertilization requirements. The information thus obtained allows you to respond to nutrient needs well before the display of visual symptoms of nutrient deficiencies with the consequent reduction of bottom-line crop results.

Crop nutritional problems result in a stressed, weakened crop. By the time nutritional deficiencies can be seen with the naked eye, the crop has *already* suffered loss in yield and quality – but also, it can have been subjected to avoidable insect and disease losses. *“Nature always eats the weakest with bugs and/or disease.”*

*And don't forget about the quality of your irrigation water!* With falling aquifers, irrigation water quality is also declining – rapidly! Falling aquifers result in salts being concentrated in the remaining water. These salts [mostly bicarbonates] can seriously interfere with fertilizer and pesticide chemistry = effectiveness - especially in spray water. And, if you have highly calcareous (high pH) soil, irrigation water high in bicarbonates can effectively *turn your soil to stone* because, ***What's In Your Water Becomes Part Of Your Soil.***<sup>TM</sup>

Plant sap testing from petioles at the appropriate times gives you confidence that nutrient needs are being met as the needs arise and helps ensure that a balance of all nutrients - including the micros and traces - are present as the potatoes develop. Another consequence of this management technique is that nutrients [and water] are used much more efficiently, reducing production costs. Managing potatoes with this *“ask the plant”* philosophy increases yield, grade, and storage quality.

You can get into at least as much trouble from minor, micro and trace nutrient problems as you can with the major (N-P-K-Ca) nutrients.

Proper management of crop nutrition results in higher yields and better quality, together with lower production cost. That equals better margins for you.



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# Montana Seed Potatoes

Certified seed potato and commercial growers alike from throughout the United States know they can expect extremely high quality, clean and disease-free seed from Montana. Montana seed potato producers have the luxury of the best geographical isolation in the United States. Montana's seed potatoes are produced in mountain valleys with virtually no commercial production. Relatively cool growing conditions in the secluded mountain valleys result in reduced insect pressure and the arid environment limits the spread of diseases. The excellent quality of Montana Seed Potatoes is backed by the most rigorous testing and inspection standards in the country. All potatoes certified as seed originate from in vitro plantlets produced by the MSU Seed Potato Certification tissue culture program. No out-of-state potatoes are allowed to be used as seed stock for seed certified in MT. During the summer growing season, all early generation potatoes are 100% tested for viruses PVX, PVY and PVY, and all Generation

2 potatoes are tested for PVA and PVY. Many growers also choose to have their generation 3 and 4 crops virus tested. After harvest, samples are collected from all Montana seed fields and make the voyage to Hawaii where they are grown out in the winter post-harvest test. Approximately 40 days after planting, all seed lots are visually inspected and leaves are picked from each plant and shipped back to Montana for virus testing. The pairing of virus testing with visual inspections results in a very accurate crop-health status for buyers of Montana seed potatoes.

Every year, the Montana Potato Improvement Association hosts an annual Seed Potato Seminar. This year will mark the 77th gathering of Montana growers along with potato growers and industry representatives from throughout the US. The annual Montana Seed Potato Seminar will be held November 12-13, 2013 in Bozeman, Montana at the Grantree Hotel. Call the Montana Seed Potato Certification office at 406-994-3150 for more information. 

# Zapata Seed Company

Zapata Seed Company, located in southern Colorado in the San Luis Valley, is owned and operated by Brian and Deborah Brownell. This certified seed farm proudly raises potatoes from plantlets in the greenhouse to fourth generation tubers. We are committed not only to producing clean, healthy seed but to reducing our water usage and protecting our fragile soils.



Patrick, Debbie, Bridget, Elaina, Anna and Brian Brownell

Three generations of Brownell's have been planting trees and winter rye to prevent erosion. We currently use two to three tons of compost yearly on potato ground. During pre-plant and throughout the season, our compost tea brewers are utilized to add bacteriological diversity to the fields. Alternating with cover crops such as hot mustard, clover, radish and Sudan grass rather than growing small grains, has helped to bring fertilizer back to the surface and add nutrients to the soil while further reducing water usage.

By limiting fertilizer and using crop consultants on a weekly basis to monitor insect populations and detect disease we try to give our crops the best environment possible to thrive in. We also have a seasoned roguing crew with many years of experience in the certified seed business.

At Zapata Seed we are working to conserve this environment that we depend on to raise future generations of both potatoes and farmers. 



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# Evergreen Implement Expands its Potato Equipment Services

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Under the leadership of Art Helm and his successors, Helm Welding has established themselves in the marketplace as a leading manufacturer of high quality and durable agricultural equipment. Many LuckNow products built over 30 years ago

are still going strong today. In such a competitive marketplace, the LuckNow Products brand has maintained the respect and trust by their clients across the entire product lineup.

As part of their growth over the years, Helm Welding has expanded their product offering and product knowledge, and today offers a full line of four auger and vertical TMR mixer feeders, snowblowers, grain buggies, rotary tillers, rotary mowers and material handlers. Each of these products is available in a wide range of model sizes to choose from to meet all customer demands.

Despite being located in small town rural in Ontario Canada, Helm Welding has not only succeeded in establishing a major market segment in the United States, but also product distribution to Mexico, South America, Europe, Japan, and China.

Moving forward, Helm Welding expects to continue its growth, and sees possible expansion in their commercial products lineup, particularly in increased promotion of their heavy duty snowblowers and compost mixers, both of which can be used in non-agricultural applications. All of the company's products are specially designed for low maintenance, simple operation, and long-lasting durability and quality.

Throughout their history, Helm Welding has built their reputation on building products that are above the rest. Now closing in on its 50th year in business, the company continues to prosper and remains committed to offering the best selection of agricultural and industrial equipment to their client base.

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Lucknow, Ontario, Canada



**Material Handlers**  
7 Cubic Yards

# SUMO USA gas powered post drivers are #1 for affordability and quality all in one package!

**G**as powered post drivers arrived on the market over 4 years ago; and ever since then, there has been a need for that convenience to be available in a price range for every budget. Here at SUMO USA Inc we have accomplished just that! We are happy to announce a line of drivers priced so everyone can experience the easy way to build fence.

The SUMO USA "Wrangler" is powered by the ultra-reliable HONDA GX35 engine, which is a 4 stroke engine for easy fueling, and also inclinable to operate at any angle. There is a highly effective internal dampening system in the handles to help make your job easier throughout the entire day. The HONDA engine gives the "Wrangler" post driver an amazing 1720 blows per minute. There is no need for annoying hoses or power sources. This 100% self-contained driver weighs only 35 pounds. If you can get yourself to the post location; you can get your driver

to the post location!  
SUMO USA Inc is family owned and operated by Mark & Lorri Evans



and is located in Nevada. We value each and every customer, we personally guarantee you will receive the best possible service before, during,

and after your purchase. Each SUMO USA post driver is assembled in Nevada with a USA HONDA certified engine. The SUMO USA "Wrangler" has a 1 year warranty, with a lifetime warranty on the hammer itself. HONDA carries a 2 year normal / 1 year commercial use warranty on the engine.

The affordable price for the "Wrangler" is only \$1249 which includes delivery to your door! We have zero hidden, or extra costs. The SUMO USA "Wrangler" has 2" barrel to drive t-posts and other smaller posts. Custom rod sleeves are available for rebar or grounding rods. Custom hard case for storage & transporting also available. You can call SUMO USA Inc direct to place an order.

Phone: (702) 293-4262 Email: info@sumousapostdriver.com.

For video and customer testimonial please visit our website: www.sumousapostdriver.com Mailing address: 1557 Foothill Dr #A103 Boulder City, NV 89005



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**T**he Industrial Maid T 3000 series air cleaners have been used in hundreds of farm shops, implement repair and diesel repair shops to control welding smoke and fumes, grinding dust, nuisance dusts and diesel smoke.



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### Product Specifications:

- CFM: 3,000
- Motor: ¾ HP 115/230/1/60
- Blower: 10 x 10 forward curved blower direct drive
- Dimensions: 25" H x 72" L x 25" D
- Weight: 170 lbs
- Filters: (2) 4" pleated prefilters Merv 8 (2) Merv 15 bag filters

For more information, contact Industrial Maid at 1-877-624-3247, or email Jeff Zvolanek at jzvolanek@industrial-maid.com



AT LAST..... A gas powered post driver that offers  
Affordability & Quality all in one!

**SUMO USA "Wrangler" for only \$1249**

Includes delivery to your door... no hidden or extra cost



SUMO USA "Wrangler" with 2" barrel



- Powered by reliable HONDA engine which offers 1720 bpm
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- Highly effective internal dampening in the handles for comfort
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# Stop Filter Fuel Gelling In Cold Weather

**E**TIP, Inc. says to help prevent diesel/biodiesel fuel gelling in cold weather the Universal Fuel Filter Preheater mounts easily to the engine fuel filter. It is one of their extensive line of products for cold weather starting, Security, Safety and Maintenance. Some of the more popular products include the Cable Lock Alarm, Personal Strobe Lights and Steering Controls for heavy trucks.



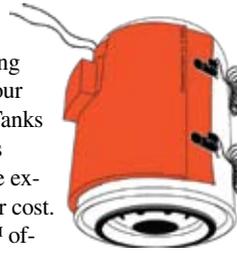
Cold conditions often affect fuel flow during start-up and in daily operations. When it is cold enough to cause gelling in the fuel over-the-road trucks, heavy machinery, automobiles, generators and other equipment that must operate in low temperatures can become disabled. The gelling plugs the filter preventing passage of the fuel. The only solution is to replace the filter or warm up the fuel until it flows again. It sometimes requires towing the equipment to an inside location or bringing a heater to the equipment site.

Fuel filters for bulk tank dispensing pumps can also be affected. See our new Filter Heater for Bulk Fuel Tanks and Dispensing Pumps. The costs related to fuel gelling can become expensive in downtime and in repair cost.

The Universal Filter Preheater™ offers a simple solution. It is a thin, flexible, silicone/fiberglass heating pad that easily wraps around the metal filter housing to maintain full contact and to evenly transmit heat quickly through the metal of the filter housing helping to avoid the risk of fuel gelling. It converts the metal filter housing into the heating element. It is an electric blanket for the fuel filter housing. Springs and nylon ties hold it in place.

When it is time to change the filter element, the Universal Filter Preheater™ is easily released for transfer to the new filter housing. Fuel gelling and related problems are avoided.

Drawing 85 watts it is available in several voltages: direct current 12v & 24v, and alternating current 120v & 240v and a dual grid model combining the option of powering with direct current or alternating current in the same Universal Filter Preheater™. Measuring 4" X 7" it is designed to fit a diameter of 2.5" to 4" (circumference of 8" to 12"). See it on the website at <http://www.etipinc.com> under Maintenance. The Universal Filter Preheater™ carries a three year materials and workmanship warranty. A standard 12v Universal Filter Preheater



™ is priced at \$138 each.

The standard engine oil and hydraulic Peel & Stick Fiberglass/Silicone Preheaters also are being used to warm fuel tanks.

120v they stick to the outside of the tank and warm the fuel overnight. No cutting or welding, just thoroughly clean off the mounting area & stick it on. The cold weather products offered by the Universal Heater Co., Inc. help improve starting and operations and bottom line business performance. "THE BEST WAY TO PREHEAT ALMOST ANYTHING."

Include both the Peel & Stick Universal Preheater™ for engines, hydraulic systems, transmissions, gear boxes, etc. and the Universal Filter Preheater™ in cold weather packages for a more effective and complete solution to cold weather problems.

E TIP represents and markets safety, security and maintenance products to a variety of customers throughout the US and the world. E TIP, Inc. has carefully assembled a family of related products available nowhere else.

Visit the website at [www.etipinc.com](http://www.etipinc.com) to review Universal product videos as well as other products for Safety, Security and Maintenance or contact E TIP, Inc. directly at (800) 530-5064 or fax (630) 801-9569. E-mail: [sales@etipinc.com](mailto:sales@etipinc.com)

**E TIP**™, Inc.



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# Furrow Cruisers®-The Closing Wheel Solution

## Copperhead Ag's Furrow Cruisers® Close the Deal on Open Furrows

**H**ave you ever had trouble closing the furrow behind the planter? Do furrows crack and reopen after drying out because you planted in wet conditions? Do you ever “just have to get out and plant” because it is getting late in the season? You can't always control the weather, the calendar or what the ground is like when you have to plant. So what can you control?

Farmers in SE South Dakota were having issues closing up the furrow behind their planters with the standard rubber closing wheels. Seeds were left uncovered and plants were not emerging. Crop yields were not reaching their highest potential. After many local discussions, it was decided that a spiked closing wheel was needed to help break up the furrows. There were many spiked wheels on the market already, but none of them seemed to work in all conditions and tillage practices. Something new and innovative was needed!



In 2009 Copperhead Ag introduced the **Furrow Cruiser®** spiked closing wheel. The wheel is made of a durable UHMW poly. Squared off teeth help the wheel run clean and break down the furrow sidewalls. Being the same width of the original closing wheel helps provide depth control and aids in firming the soil around the seed. Not only is sidewall compaction being broken down, but seed to soil contact is perfect. Conventional or no-till practices, it doesn't matter. You can run two **Furrow Cruisers®** and get equal emergence from all of your plants.

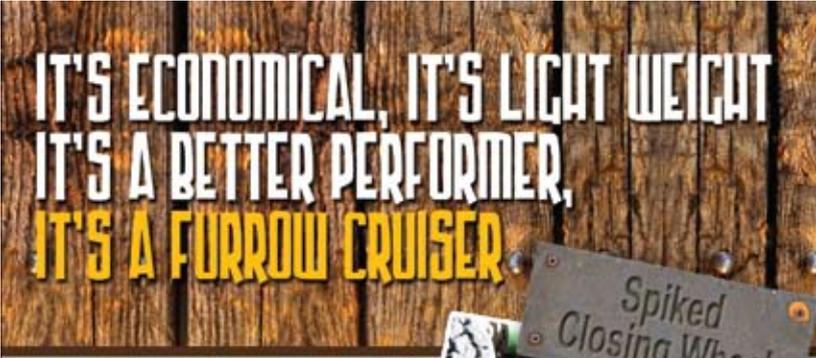
In wet conditions, the standard rubber tire presses the soil together. When it dries out, furrows crack open to the point that you can look directly down and see the seed. The **Furrow Cruiser®** completely breaks down the furrow, so that there is nothing left to reopen. In dry conditions, the **Furrow Cruiser®** firms up the soil around the seed so that any moisture in the soil

is preserved around the seed. For farmers who are looking for an effective solution to open furrows and unequal emergence, the **Furrow Cruiser®** is the answer.

Over the years, **Furrow Cruiser®** distribution has expanded all over the US. But why stop there? Copperhead Ag also has **Furrow Cruisers®** being run in Canada, France, South Africa and Aus-

tralia. The success of the **Furrow Cruiser®** continues to grow from year to year.

If you are looking for the most cost effective, best producing closing wheel to help your crops reach their highest potential, you need the **Furrow Cruiser®**. Check them out at [www.CopperheadAg.com](http://www.CopperheadAg.com) or talk to their knowledgeable staff at 605-261-3634. 



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IT'S A BETTER PERFORMER,  
IT'S A FURROW CRUISER**

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- Excellent abrasion resistance with UHMW poly.
- Improves seed-to-soil contact.
- Eliminate air pockets and sidewall compaction.

**FURROW CRUISER**

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**Gridley, KS 66852**

## Machine Service, Inc.

**M**achine Service, Inc. a steel fabrication business owned and operated by Jay and Jane Luthi, located in East-Central Kansas at Madison, is continuing to provide quality products for the ag industry. The venture into the overhead storage business began with a request and has continued to grow, building upon that same desire, "To meet the customer's needs".

Machine Service, Inc. sells a line of Overhead Bins with capacities ranging from 14-60 ton to 550-2200 bushels. The bins are designed for any dry, flowable material such as seed, feed, or range cubes; but also accommodates heavier weight materials such as fertilizer, mineral, sand, or cement. Features include: a ground operated top door, external as well as internal ladders, external ribs to prevent side bowing and to allow for interior freedom of material flow, 42 degree slope on top for complete fill and 48 degree slope on hopper for good clean out. All bins are prime coated inside, primed and painted white outside for years of neat appearance.

Some operators have the same requests, but many operations approach their grain and feed handling differently. Therefore bins are made when ordered to allow for customization. Any structure can be divided into 2, 3 or 4 compartments. The customer know his needs best and thus the options on each bin are open to the customer's request. For more information, call or write to Machine Service, Inc. at 3430 EE Road, Gridley, KS 66852, 620-427-4200.



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# Anderson Industries Introduces Fuel Horse

Anderson Industries is known for building innovative products for farmers. They've been doing it for around 30 years since the invention of the opener for precise planting and better fertilizer use. The latest innovation is the Fuel Horse, a fuel trailer for refueling and servicing agricultural equipment in the field.



The Fuel Horse is initially available hauling 750 gallons of diesel and 110 gallons of DEF (Diesel Exhaust Fluid). The most noticeable feature of the Fuel Horse is its sleek and unique styling. The rounded fuel tank is in the front of the trailer and the fuel hoses, tool box, and storage compartments are at the rear.

A paddle latch opens the rear hatch of the Fuel Horse. As the tailgate opens, the fuel nozzles and a toolbox are within easy reach lit up by an LED strip. Ease of use and efficiency are the goals of the Fuel Horse. By placing the fuel reels and tool storage at the back of the trailer, it doesn't matter which side of the implement the farmer drives to. Competitive trailers often have the nozzles on a side of the trailer and closer to the hitch. With 35' hoses, the Fuel Horse makes it easier to park in one spot and refuel multiple vehicles if needed without tripping over the hitch.

The Fuel Horse also features high flow gas powered pump, fuel filters, a high flow diesel reel and large nozzle resulting in fast fill ups. The 12 volt DEF pump has a recharge system that replenishes the battery as the trailer is towed. A Montezuma tool box and storage spaces also included. Aluminum wheels and rubber torsion axles provide mobility and style.

Anderson Industries is working to add other products to its portfolio. In addition to openers and the Fuel Horse, they offer the Torpedo Hitch for hooking up anhydrous tanks and other trailers. Anderson Industries is also into contract manufacturing of steel parts including fabrication, weld, machining, and iron castings.

## Unbridled Versatility

[The Anderson Fuel Horse]

**Anderson**  
FUELING HITCH

- 750 gallon diesel tank | 110 gallon DEF tank
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- 12V DEF pump with a charging system
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Used with their patented Ugly Digger blades, which have a thin, hard-faced edge to stay sharp and always cut the tap root, the lifting fingers and the smaller diameter Ugly 6-inch Bottom Elevator Idler Wheels raise the peanuts without turbulence and in a smooth, uniform ribbon to the top of the elevator.

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# Custom Made Products

Custom Made Products was started in 1968 by Gary Naeve, when he developed and invented a front mount fuel tank and obtained a patent. This was a needed solution to a problem that he was facing in his own farming operation. The first eight fuel tanks were produced in Gary's shop at his farm. After Gary hired a local company to produce the tanks, he eventually decided to sell that part of the business to Simerson Iron Works in Sioux Rapids, Iowa.

A few more years passed before Gary's entrepreneurial spirit was kindled again. He had been helping a friend with some dirt work in the process of building a hog confinement. It was then that Gary became aware of dirt moving equipment and he quickly became a dealer for a number of dirt scraper manufacturers.

In the fall of 2004, Gary added land rollers to his line. He is now the "larg-

est dealer" in the United States.

Around the same time the dirt scraper business evolved, the CDL program



began. After obtaining his own CDL endorsement, he was approached by numerous individuals for permission to borrow his truck for use in obtaining their own CDL endorsement. The CDL program at Custom Made

Products was designed to provide the training and equipment to allow individuals to obtain their CDL endorsement with minimum fuss. Gary's CDL program has helped over '6,500 Satisfied Customers' over 19 years. After many years of training and helping individuals get their CDL License, he has stepped down from doing the training himself and has handed that position to capable individuals. Instead of providing training four days a week, Custom Made Products is able to provide training five days a week in both Humboldt and in Fort Dodge.

In 1996, Gary's son Rod began a trucking operation underneath the Custom Made Products name. From a startup of only one truck, Rod has grown to become an outfit of 20 trucks with a wide range of flatbeds, vans, feed and grain trailers, and heavy equipment hauling for a diverse range of hauling ability.

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ranchers, & contractors. It delivers a 9 gauge, barbed, 1 3/4" & 2" staple. This staple is the same size as the commonly used hand drive staples. Also available is a USA made air compressor & accessories that compliment the Stockade Staplers. For more information contact info@prostapler.com, www.prostapler.com, or 507-753-2943



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(Please see press release in this issue)

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## Ron's Manufacturing Vertical Tillage Coulter Kit Attachment Gets Even Stronger

Ron's Manufacturing has added two more bearings to their kits. This makes the kits even more heavy duty. Coulter kits from Ron's Manufacturing converts any chisel plow to a year-round tool to prepare your fields.

In the fall, it can be used to lightly till the soil, incorporate and size residue. It is also a practical way to dry out wet soils. The Vertical Tillage Coulter Kit Attachment works well in no-till conservation tillage, as well as conventional tillage operation, extending the growing season and creating better planting conditions. Vertical tillage prepares the soil to warm more quickly in early spring, energizing the seedbed for maximum growth and yield potential.



The Vertical Tillage Coulter Kit Attachment is a smart investment in that it has multiple uses which will ultimately produce savings in terms of time and money. It also has a low operating cost per acre and can be used in a wider range of conditions than most tillage tools. It operates at a relatively high speed of 6 to 12 MPH which saves time. The Vertical Tillage Coulter Kit Attachment allows for quick mixing of manure and soil to prevent loss of nutrients and control odor. It can also be used for very shallow incorporation of fertilizer and select herbicides.

The Vertical Tillage Coulter Kit Attachment is spaced on 6 inches.

For more information contact Ron's Manufacturing at 40582 187th St., Carpenter, SD 57322; phone 605-266-2177; E-mail [info@ronsmfg.com](mailto:info@ronsmfg.com). (Also, please see their ad in this issue).



# Art's Way Offers Snow Blowers to Handle What Mother Nature Dumps on Us.

**W**ith the acquisition of Agro Trend, Art's Way Manufacturing Co., Inc. a leading manufacturer and distributor of agricultural machinery, now offers a complete line of snow blowers. The acquisition will also bolster distribution of current Art's Way products into Canada.



To meet virtually every snow moving need, there are currently 28 snow blower models in the Art's Way lineup in four different categories: Compact, Standard, Farm Utility and Heavy Duty. Cutting widths range from 54 inches to 10 feet and cutting heights span from 24 to 38 inches. Rear mounted pto driven and pull type snow blowers offer flexible operating options.

For directing snow, snow blowers in the Compact, Standard and Farm Utility

lines feature a chute deflector and crank chute turner and have a hydraulic chute turner and hydraulic deflector as options for perfect snow distribution. The four snow blowers in the Heavy Duty line include a hydraulic chute turner and hydraulic deflector as standard.

All models operate smoothly with a high-efficiency fan. They are ruggedly constructed from formed steel for a long operating life with minimum maintenance. Options available for models with double augers to feed mounds of snow quickly and efficiently.

Art's Way Manufacturing will lease the facility in Clifford, Ontario and plans on continuing manufacturing, marketing and sales from the Canadian location.

#### About Art's Way Manufacturing Co., Inc.

Art's Way manufactures and distributes farm machinery niche products including animal feed processing equipment, sugar beet defoliators and harvesters, land maintenance equipment, crop shredding equipment, round hay balers, plows, hay and forage equipment, manure spreaders, reels for combines and swathers, and top and bottom drive augers, as well as pressurized tanks and vessels, and modular animal confinement buildings and laboratories. After-market service parts are also an important part of the Company's business. The Company has three reporting segments agricultural products; pressurized tanks and vessels; and modular buildings.

For more information on their new line of snow blowers contact Art's Way Mfg. via phone, email or web: 1-712-864-3131 sales@artsway-mfg.com • www.artsway-mfg.com



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## Egbers on Super Edge

“There just isn’t enough we can say about the Super Edge Auger Flighting” says Doug Egbers, owner of Egbers Flighting Company, Inc. The Super Edge is created in the rolling process. This is a cold

rolling process so the steel is not heat treated. “This lets the steel retain its strength,” states Doug.

Because of how the flighting is made, the outside edge is thicker than your common market flighting, or “plain flighting,” as they call it. Super Edge Auger Flighting has an outside edge that is approximately 50% thicker. It gives longer wear and longer life of the auger.

And Egbers knows their augers. Their repair and fabrication division has years of experience in re-flighting and balancing auger sections. “It just makes good sense to replace the auger flighting instead of buying a new auger section.” Confirms

Doug, “New auger sections can be pricey and the Super Edge Auger Flighting is priced to sell.” Along with their repairs Egbers offers a wide assortment of replacement parts and tubing. They have your basic inside tubing, pipe, rolled tube for grain cart unloading augers all the way up to 40 ft. lengths for transport augers. “We’ve always thought freight and shipping different replacement parts from different sources can create a problem for our customers, and we can ship pretty much all the replacement parts a customer needs from here,” Doug says. “That way all your parts come from one location instead of several.”

A newer service for Egbers is their ability to balance combine rotors. “We’re always looking for new products and services for our customers. These rotors can be balanced at a fraction of what a new one costs,” says Doug.

All in all, Egbers supports a great team for sales and repairs. They’re your One-Stop-Shop for your replacement needs, and they’re farmer friendly! Call them at 800-462-2588 or check them out on the web at [www.egbersflighting.com](http://www.egbersflighting.com). 

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Are you aware there is another option available to the farmer at harvest time?

2013 marked U.S. Custom Harvesters' 30th anniversary. The organization began in May 1983 with a few harvesters around a table discussing issues the industry was up against at the time and the need for a strong voice. The idea quickly turned into reality and continues to gain recognition among other agricultural entities. U.S. Custom Harvesters, Inc. is the only national association working for the custom harvesting industry and provides more than just a resource for the custom harvester.



Equipment failures, labor shortages and inclement weather don't realize the harvest can't wait. A custom harvester can relieve the stress of the most anticipated stage of a plants lifecycle for the farmer. By providing the equipment and the necessary labor, the custom harvester is able to harvest the crops in a professional and timely manner.

U.S. Custom Harvesters, Inc. serves as a strong link between harvesters, the farmers they serve and businesses they work with. We provide a powerful voice for our industry to Local, State and Federal Government agencies. We help create that community through our monthly newsletter, our website (uschi.com), our Facebook page, and even our twitter (@tweets\_USCHI).

Whether you're looking for a forage or a grain harvester, a call or email to the office can help you find someone willing to be there at your most crucial time of the year. Please be sure to visit our website for more information or call 620-664-6297 if you have questions.

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# Kansas farmer goes nearly a decade without rained on alfalfa.

In the commercial hay industry, producers have searched for years to find a way to put up high quality hay in large square bales. Larry Matlack of Burrton, Kansas knows all too well the trials of making quality hay, he and his sons have raised alfalfa in south central Kansas for 25 years.

"In all that time," Matlack says. "We've seen a lot of producers leave the hay business in pursuit of other crops, the largest contributor to that is weather."

In 1999, Matlack decided to find a way to beat mother nature. He had seen farmers in the eastern United States wrapping big round bales, and decided that he could do the same with his big squares.

In an agreement with Tube-Line Mfg. of Canada, the Stinger Cube-Line wrapper was born. Able to wrap bales eight feet long in a stack that's up to nine feet high, this large commercial wrapper set a new standard for the haying industry.

"I started out using it as an insurance policy," Matlack says. "If the rain was coming, I just baled it, and wrapped it. It didn't matter if the alfalfa was 20% or 60% moisture, the

point was to save the quality, and get the irrigation system back on for the next cutting."

The unexpected surprise came when Matlack discovered that dairymen preferred high moisture baleage over high quality dry hay.

"We decided we'd put up each cutting as baleage, and turn that 40% of our crop that used to go to grinding hay, into dairy hay."

For eight years now, Matlack's downed hay has not been rained on once. Not only that, but by getting the water back on, most years he has gained a 6th cutting.

"It gives you an upper hand," Matlack explains, "With the Cube-Line wrapper we can bale in as little as 11 hours after swathing."

The new 2014 Stinger Cube-Line wrapper lists for \$56,000. "It's really something to think about, Larry explains, we're down to 350 acres of hay, and the wrapper makes us on average \$50,000 more profit each season."

For more information call 1-800-530-5304 or go to [WWW.STINGERLTD.COM](http://WWW.STINGERLTD.COM)



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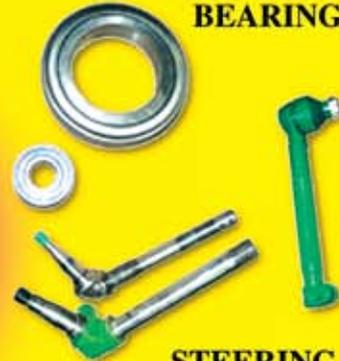
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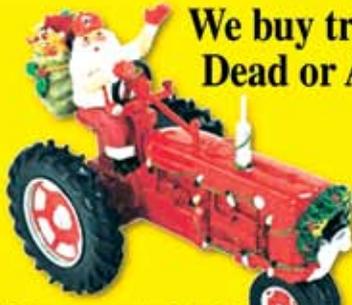


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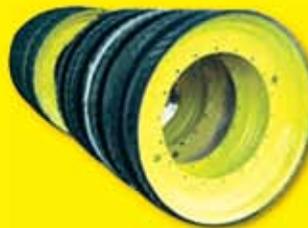
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Walinga is a leading North American manufacturer of transportation equipment and portable pneumatic conveying systems for grain, feed, seed... virtually any dry bulk material. Walinga is still a family owned and operated company. The total commitment to quality is not only our inheritance - it's our foundation for the future.

Walinga products represent the best in manufacturing excellence. Our in-house engineering and design teams utilize the most current computer technology available. State of the art equipment, combined with over 50 years of experience, ensures that our customers receive unsurpassed quality.

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## Nokian Manufactures Agricultural Tires for Modern Needs

**N**okian Tyres is a European tire manufacturer that specializes in specific solutions for unique agricultural applications. Their focus is on offering new tire designs that out-perform traditional agriculture tires by improving performance on hard surfaces and carrying heavy loads efficiently.



The Nokian TRI 2 tractor tire is designed for the needs of the modern tractor. It features a block tread pattern that performs well when tractors are on the road and in the field. When the Nokian TRI 2 is used on the road, it has more tread surface in contact with the road than a traditional tractor tire. That spreads the tire wear out over a larger surface area and allows the TRI 2 to last much longer than a traditional tractor tire in

hard surface applications. The Nokian TRI 2 also has excellent grip and self-cleaning and limited ground disturbance in the field. The TRI 2 offers higher load carrying capacity than traditional tractor tires, which helps extend the life of your tire. The Nokian TRI 2 is a 40 mph rated tire, which allows you to drive faster and ride smoother than a traditional tractor tire. The Nokian TRI 2 offers excellent performance for agricultural applications where the tractor is used on the road and/or carries a heavy load.

Nokian flotation radial tires are designed to carry the heavy loads of today's agricultural trailers with stability and low ground pressure. The Nokian ELS radial tires have a lug pattern that is typical to many other flotation tires currently available in the market. What is different about the ELS radial tire is its' ability to carry heavier loads with the stability and larger footprint of a radial tire. In addition, the Nokian ELS radial will perform better on hard surfaces than a typical agricultural trailer tire. If you use your agricultural trailer mostly on the road, or if you are carrying the heaviest loads, the Nokian Country King is designed specifically for those needs. All Country Kings are steel belted to offer increased load carrying capacity, while maintaining a light footprint in soft soil applications. The Nokian Country King features a block pattern that maximizes the tread contact with the road, which leads to a long service life in hard surface applications. The Nokian line of flotation radial tires are manufactured for the needs of the 21st century agricultural trailer. 



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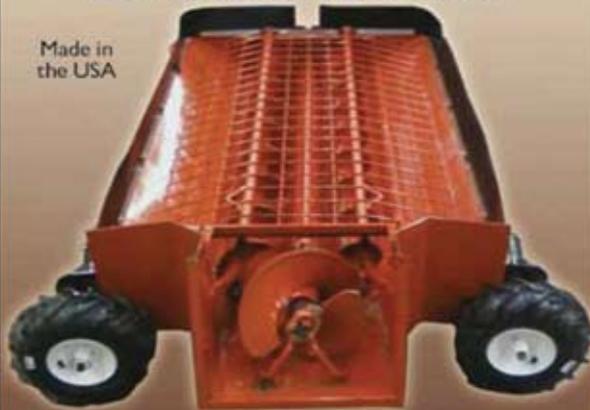
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## Auger Jogger Work Smarter, Not Harder.

The development of the Auger Jogger was out of necessity. In 2008, family farmer Greg Grengs was going to the chiropractor with increased frequency. Added to that his teenage son suffered from asthma and allergies, and thus the conception of Auger Jogger.

A year of development went into scientifically pitching the wheels in the perfect arc to decrease drag, formulating the motor size and placement to best suite a multitude of augers, and making a product that never requires a farmer to compromise the integrity of the original equipment- yet is simple and quick to put on. After applying the knowledge of all these things, Greg and his family set about development. From there, the Auger Jogger was born.

The Auger Jogger is a remotely controlled auger mover. This mover runs off the 12-volt tractor battery, thus avoiding messy hydraulic systems; however, the tractor does not have to be running to operate this system. It mounts easily with the existing holes on the hopper, so there's never a need to drill into your equipment. Their super lug, scientifically pitched, heavy duty tires follow a precise arc every time, so as you move your auger forward and back you can clearly see if you're lined up.

As farmers, Greg Grengs and his family know how important it is for equipment to be easy to operate and reliable. There are remotes, and they've put switches on the control box for ease of use. Add two worm drive motors (one for each side) and tires that grip even the loosest terrain, and you can see why the Auger Jogger is the number one selling mover on the market.

For more information call 701-263-7397 or visit their website at [www.augerjogger.com](http://www.augerjogger.com).



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# Christianson Systems, Inc.

In the ever-changing world of agriculture Christianson Systems, Inc., has been an industry leader in the area of material handling systems. In the early 70s four brothers from Central Minnesota saw the potential in offering a faster and easier method to move grain. This resulted in the change from being farmers to becoming distributors of grain handling equipment in association with Dunbar Kapple Vac-U-Vators of Batavia, Illinois. By the late 70s the “farmer ingenuity” took flight and Christiansons introduced their own line of equipment. The Handlair line featured the positive displacement blower and an adjustable airlock. In 1989 Christiansons purchased Dunbar Kapple and consolidated the manufacturing and international marketing operations in Central Minnesota.

Christianson provides innovative, reliable, high-quality equipment by investing substantially in the latest computer-aided-design technology and relying on its dedicated and talented people.

Corporate offices and manufacturing facilities cover about 85,000 square feet. Large ship unloaders are assembled and tested year-round inside one of the tallest (80 feet) manufacturing buildings in Minnesota. We are proud to be American-Made.

The ability to offer a custom-built machine has allowed us to diversify and offer equipment in all areas of bulk handling including grain, feed, and seed, as well as plastics and other dry flowable materials. Unusual products transferred include rocks, mud and sludge that are moved with the Christianson utility vac or Rock Vac. Each machine is designed with the end user in mind, custom-built equipment is a specialty.

The Seed Vac bulk seed conveyor just celebrated its twentieth anniversary. As the planters increased in size so did the need for a larger seed delivery system. The Seed Vac is now available in two sizes with capacities up to 700 lbs per minute. This versatile machine is easily adaptable for the large center fill planters. Originally designed to deliver bulk seed to the planter, the Seed Vac is very popular in the deer feeder industry used to fill feeders in the field.

Replacing the need for legs, augers, sweeps and shovels the Handlair and VacBoss grain vacs are the one piece of equipment to do it all. Featuring a positive displacement blower and the adjustable airlock the machines create both vacuum and pressure to fill and unload trucks, bins, silos, bunkers and flat storage facilities. With sizes available in PTO, electric and diesel power the owner can tailor a machine to match the particular farm or elevator operation. Gaining popularity is the Push-Pac system. This pressure only system is available in sizes from 3” to 6” to fill your bins and silos directly from your drier.

Over the years the facility at Christiansons has grown to integrate the in-house manufacturing process for our major components. Our new machining center lead to the most recent addition to the Christianson family – The Onyx Race bicycle hub. This instant engagement hub is used by top professional riders around the world. In conclusion, Christianson is not just grain vacs!



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A1 Mist Sprayers offers a complete line of High Performance, Heavy Duty 3-Point PTO Driven and Engine Driven Mist Blowers for use on flatbeds, pickups, trailers, utility vehicles and ATVs. These units have the ability to uniformly spray up to 140 feet horizontally.

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chemical and increased uptake into the plant. Mist Sprayers are the only way to spray herbicides on your property. The 140 foot spraying range allows you to spray pasture, range land, creek banks, levees, roadside ditches, deep valleys, steep terrain, hard to reach and rocky areas while using 1/10th the water and significantly less chemical. Plus, there are no booms to break! Protecting your land and fence rows from brush, broadleaf weeds and erosion is a sound **INVESTMENT**. Your goal is healthy grasses for your pasture, range, road ditches, livestock production, erosion control, and wildlife habitat... not brush, weeds or land erosion.

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izing in Livestock spraying and customers say that it is the preferred insecticide sprayer for control of horn flies, face flies, stable flies and house flies, as well as gnats, ticks, mosquitoes and other biting insects found on or near livestock in confinements, feedlots, lagoons, levees, pastures and around other buildings.

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field ready for over wintering with traditional chopping corn heads, added gas and wages for hired help. The Calmer BT Chopper is an upgraded stalk roll that replaces the stock rolls of the JD 40, 90, and 600 series, CASE-IH 2200, and 2400 series, and the NH 96c, 98c, and 996 corn heads. Take off the old rolls, and put on the Calmer BT Choppers. The patented open window is an opening in the blades that allow the stalk to be fed into the processing area of the stalk roll. The 10 very sharp blades of the Calmer BT Chopper then grab onto the stalk (grasp and control), and shred, chop, and place the residue on the ground in small 1 to 2 inch pieces. These pieces are not whole short stalks, they are small vertical and lateral pieces put on the ground evenly at each row. No windrowing to decompose slowly, or to keep the ground cold longer in the Spring. The residue is held down by the first frost, and decomposed more quickly by planting time. The exploded root balls are kinder to the tires. There are sprocket and patented beveled stripper plate kits available for the 40/90 corn head. There are patented beveled stripper plates available for the 2200/2400, and the 96c, 98c, and 996 corn heads. Call 309-629-9000 to talk to one of the Farmers who work at Calmer Corn Heads. Who better to talk with, then someone who also uses the Calmer BT Chopper in their own field?

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# ANBO Manufacturing Announces New Rancher Series Grapples

**A**NBO Manufacturing, leading manufacturer of grapples and blade attachments for use in agriculture, forestry and construction has announced a new series of grapples designed specifically for the modern ranch and livestock farms.



Made of tough A-572 alloy steel, the Rancher Series grapples come in sizes from 69 inches to 94 inches and can be made to fit virtually any carrier. It features an extra wide 75-inch opening for picking up large round bales, square bales or large brush piles. The 8-inch tine spacing provides the ability to forward and back rake fine hay and debris into easily manageable piles of material that can be picked up and relocated.

Rancher Series grapples also feature serrated edges which provide an extra strong bite and hold on loads, preventing them from slipping. Complete with 3,000 psi heavy duty welded cylinders, the Rancher Series grapples have outstanding clamping power for secure loads.

Long-time rancher Gerald Scholz brags about his new ANBO Rancher Series Grapple.

“My family has owned property in Okanogan County for decades,” Scholz says. “They’ve purchased numerous ranching products to toil, till, and transform the land – but never one that works this well!”

“The 8 inch spacing between the tines is perfect for picking up both small and large materials,” Scholz said. “And, as another great feature, there are wedges on the front of the fork which will actually lift your dirt up, hold larger rocks tightly, then let the dirt fall out; it’s like a sifting effect.”

The Rancher Series grapple provides livestock professionals a hard working tool to reduce labor, increase efficiency and to simplify projects and chores. Great for maintaining fence rows, pulling fence posts, carrying fence posts, feeding livestock, placing heavy bales into feeders without damaging the feeders, picking large amounts of silage or manure and cleaning feedlots and pens.



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# Look Ma – No Wires!

## Wireless Grain Temperature Monitoring

Technology abounds in agriculture today – variable rate fertilizer applications, auto steering, precision planting, GPS spraying and harvesting to name a few. Managing your stored grain now offers some exciting new technology as well.

A producer can monitor stored grain without leaving the house or from any location that has Internet service. Tri-States Grain Conditioning, Inc., headquartered in Spirit Lake, Iowa, now offers two wireless systems that can make monitoring stored grain easier and faster than getting that second cup of coffee. Using TSGC temperature cables to give a complete temperature profile of their bins, producers will be able to monitor their grain more efficiently and with greater accuracy than ever before.

The SafeTrack Wireless Grain Temperature Monitoring System can be programmed to automatically take temperatures and save them for later viewing. Grain depth, approximate bushels and automated exhaust fan operation functions

are also available. Grain temperature history reports are also available to be printed out. Each individual bin can be set to specialized temperature parameters to accommodate various crops. Instead of taking **2 to 3** hours for a large operation, reading temperatures can now be done in **minutes!**

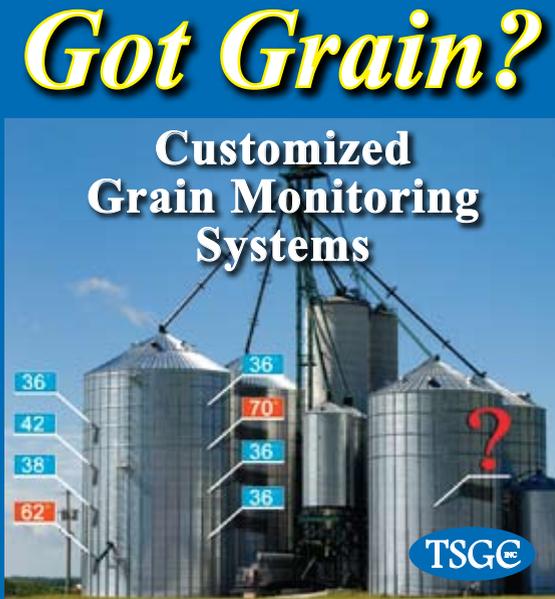
This wireless system utilizes line of sight (up to 1 mile) radio communication between the bins and the base transmitter to monitor temperatures from TSGC temperature cables (as well as grain depth). It requires power at the transmitter location on the bin, and may be run either manually or automatically, locally or over the network/Internet, for anytime, anywhere monitoring.

Another option is the GrainTRAC remote bin monitoring system. This system utilizes a cell phone modem to transfer data from the TSGC temperature cables to an internet website, [www.wagnet.net](http://www.wagnet.net). The producer is given a user name and a password to ensure privacy. Once logged onto the website, the producer can view a graphical display of his temperatures or a numerical display. Temperature parameters (minimum and maximum) can be set for each bin, as well as rate of rise temperature over a designated time period. Temperature history reports are available for print out. Options include remote fan start/stop and a weather station with features such as temperature, relative humidity, wind speed and rain measurement. Alerts are sent via email or text message.

The requirements for the GrainTRAC system include temperature cables, cell phone coverage at the bin site and electrical power. An annual access fee to the internet website is charged (a low per year minimum). Convenience is the selling point of this system because a producer can monitor his grain temperatures from anywhere via the Internet.

Either of these wireless systems will save you time and money, while providing peace of mind about the true condition of your grain. Knowing your grain temperatures, while watching for changes, is the only safe way to monitor the condition of your grain.

TSGC, Inc. is one of the largest suppliers of grain temperature monitoring equipment in the world. Headquartered in America's Heartland, our administration, fabricating, sales and service divisions are located in Spirit Lake, Iowa. We have an extensive network of contractors representing our products and services nationwide and in over forty countries. **TSGC, Inc. is dedicated to serving you.** For more information or a free, no obligation quote, contact Tri-States Grain Conditioning, Inc. at 800.438.8367, [Tsgc@TsgcInc.com](mailto:Tsgc@TsgcInc.com) or [www.TsgcInc.com](http://www.TsgcInc.com)



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# C&R Supply, Inc. Birth of a Sprayer

After carefully listening to customers who were disappointed with the performance or lack of features in ATV sprayers available, C&R Supply set out to design a series of sprayer to meet their needs.

“Instead of taking an off the shelf tank and attaching features, we needed to get all the input we could from customers and ATV manufacturers”, said product

manager Dusty Miller. “With a good vision of what features and options were required, it became obvious that a completely new tank design was needed”.

The EZ ATV Sprayer was designed with the operator in mind for ease of operation and functional ability and safety. With the sleek design brings the weight forward and more to a center of gravity for better machine

balance. Allowing the legs of the tank to wrap around the fenders of the ATV gives the sprayer dual sumps to give maximum drainage and the ability to run on side hills without losing its prime. The pump, strainer, and main shut-off are mounted underneath the tank in a protected cavity, which also serves as a dual slosh baffle. The top of the tank is designed with a fill catch area to prevent chemical from getting on the operator. The EZ is fitted with a 4 gpm Shurflo Pump and a quality Tee-Jet trigger style handgun in the convenient control panel at your side. All brackets and boomless nozzle or boom accessories are attached to the tank for quick and easy mounting. The EZ ATV Sprayer has several different options and accessories to meet your requirements and needs.



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- Controls at your side for easy and safe operation
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C&R Supply, Inc. is a distributor and manufacturer of agricultural and roadside spray equipment located in Sioux Falls, South Dakota. For over 35 years, C&R Supply, Inc. has been a leader in the distribution and servicing of many quality products from Raven Industries, Spraying Systems, Banjo, and more. They also lead the way in designing and manufacturing new and advanced products such as their C&R Foam Marker, Spot Sprayer, and the EZ ATV Sprayer featured in this ad. C&R is a provider for precision ag products such as GPS guidance systems, variable rate controllers, mapping, steering assist systems, and chemical injection units. C&R prides themselves on the knowledge and experience that is required to keep up with today's technology.

# HitchDoc

The best way to protect your seed investment, increase yield potential and maximize ROI is to deliver intact seed to the field. With its poly-cupped flighting, the Travis Seed Cart from HitchDoc gently and quickly tends seed to ensure safer delivery with less damage.

In a recent Ohio State University study, poly-cupped flighting delivered 99.62% intact seed — 5 times better than steel. More importantly, the study proves that the poly-cupped flighting on the Travis Seed Cart offers dramatically improved germination compared to belt conveyors, brush and steel augers. Poly cup resulted in a mere 1.5% decrease in germination vs. 5.9% for belt systems and 6.7% for auger designs. Safer, gentler poly-cupped flighting with the Travis Seed Cart means more yield potential from every field!

What's more, customers claim the Travis Seed Cart is "built like a tank" with heavy-duty construction and du-

rability that outlasts competitive units. Sturdy rubber torsion axles, reliable Honda engines, electric brakes, and a self-contained hydraulic system provide lasting, dependable performance for many acres over several seasons.



Now available in standard trailer 2, 4, and 6 center flow seed box units, 2 and 4 box skid models, two sizes of bulk seed units and 4 and 6 box gooseneck models. All models feature hydraulic fold poly-cupped flighting with 3-stage telescoping downspout and wireless flow control. An industry-best 40-degree slope allows

for absolute cleanout of hoppers — no cross contamination concerns! Carry several varieties to the field and use the slide gate to change seed on the fly. The Travis Seed Cart by HitchDoc provides a premium, proven product that's tough enough to outlast other units, yet safer on your seed to maximize germination for optimal yield and profit potential.

HitchDoc is based in Jackson, Minnesota in a high tech 168,000 square-foot manufacturing facility and is a sophisticated contract manufacturer of premium-quality product innovations in the agriculture, consumer, and light industrial equipment markets. HitchDoc has a reputation of being a leader in the design and manufacturing of motorcycle hitches, 3 pt. commercial snow blowers, skid steer snow blowers, fuel carts, hydraulic spreaders, among other products.

For product details, please visit [www.hitchdoc.com](http://www.hitchdoc.com) or contact the HitchDoc sales department at 1-800-446-8222 for dealer inquiries and customer requests. 🛠️



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## Travis Seed Cart

## Built Like a Tank

## Fuel Cart

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- Wireless Remote Flow Control
- Poly-cupped Auger increases yield and maximizes ROI
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- Rock Guard Kit is Standard
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- Optional 25' DEF Hose w/retractable reel & nozzle
- Optional DEF heater 110v
- Optional Solar Charging System

# Fair 7825 Bale Processor

Fair Manufacturing Inc. is now introducing the latest in bale processing. The Fair Manufacturing model 7825 features an offset rotor design with two axis bale movement. The bale is conveyed toward the rotor as well as oscillated back and forth across it. This ensures that knives do not channel into the bale, easily shredding flat or frozen bales. In addition, the 7825 features an exclusive bale ejector if mold or other unwanted material is discovered mid-process.

Other features include: two-stage bale lift, complete hydraulic control of slug bars and discharge door, full feature in-cab controls, removable stationary knives for fine chopping, 16.5L-16 flotation tires, and a rotor designed for easy twine removal.

The 7825 by Fair Manufacturing Inc. is a must for any bale shredding application. For further information, call Lydel Thomas at (605) 387-2389 or visit Fair Manufacturing's website at [www.fairmfg.com](http://www.fairmfg.com)



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## 7825 Bale Processor\*

MANUFACTURING, INC.



- Two-Stage Bale Lift
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- Two-Axis Bale Movement\*
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Cylinder Locks • Wedge Locks • Roll Off Safety Stands**

### Emerson Manufacturing Corporation

800-633-5124

[www.emersonjacks.com](http://www.emersonjacks.com)

# Japanese Mini Trucks Still Popular

According to Travis Colin, the sales manager for Ranchmaster Mini Trucks in Preston, Mo., Japanese mini trucks seem to be in more demand than ever. He says demand has grown for them because people have seen them around awhile and feel more assured that parts and service are available through the dealers that sell them.

While they are called mini trucks and approved to drive on some roads in some states, Colin says they are more comparable to side-by-side UTVs sold in the U.S. But, he adds, the Japanese trucks have much more to offer for less cost (\$5,000, used — to \$18,000 new at the top end). Most new mini trucks sell for between \$10,000 and \$15,000.

“The advantages of owning a mini truck is the amount of work it can do as far as loading capacity (4- by 6-ft. bed, up to 1 ton weight), and you are protected from the elements,” he says. “That’s really important for older folks. I’ve sold a lot to 80- and 90-year-old

farmers who are still out there working and can’t deal with the heat and cold.”

The enclosed cabs have AC and heat, and tall drivers appreciate the extended cab model. With 4WD, dump bed and accessory options, the trucks can be set up for any job. Cattle ranchers mount brush guards and slide cube feeders in the bed. Drivers in northern states add snowplows for the winter.

Small enough (55- to 58-in. wide) to drive down the aisles of poultry and horse barns, the trucks can be used to transport feed or take out manure.

“In the off-season it’s a good hunting rig because they are quiet,” Colin notes. He adds that the mini trucks are popular on college campuses and often used for utility trucks in cities.

They come equipped with catalytic converters to make them highway legal. With 3-cylinder gas engines they travel up to 55 mph at an impressive 40-50 mpg.

“Typically I sell them to farmers and ranchers for use around the farm,”

Colin says. “But some states like Oklahoma and Nebraska allow them on roads up to 55 mph. In our county (in Missouri), we can sticker them for county road use. They are not legal on any interstate highways.”

Other than new accessories and the extended cab, the models haven’t changed a lot over the years, he notes. But they have proven to be dependable.

“I get calls from people who have trucks that are 20 years old, and they need an air filter or a tune-up,” Colin says.

Ranchmaster Mini Trucks services trucks and sells parts, used trucks and new Suzuki and Daihatsu trucks. Sitting in the cab of the new vehicles is like sitting in a pickup cab with two notable differences — the size and the location of the steering wheel.

For mini truck owners, learning to drive on the right side of the vehicle only adds to the adventure.

For more information, contact Ranchmaster Mini Trucks at 417 830-2519 or visit [www.ranchmasterminitrucks.com](http://www.ranchmasterminitrucks.com)

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Payson, Illinois

# Ag Iron Concepts LLC – Bale Positioning System

## The Next Step In The Evolution Of Modern Round Baling

Imagine having all your round bales grouped together instead of being scattered through out the field. Imagine how much time you could save when collecting all those bales. That is the idea that inspired Dan Monahan to pursue developing the machine that is referred to as the Bale Positioning System or the "BPS".



It has been a team effort to bring the "BPS" to reality. The Monahans have worked with Paul Wingert of Wingert Sales who has experienced building equipment for other companies.

Dan's wife, Linda, was the one that came up with the name that pretty much says it all. She also has been responsible for shooting the videos and taking pictures for advertising.

The Bale Positioning Systems are designed to work with any size round baler making 4'x4' up to 5'x6' bales. Thanks to swivel wheels incorporated into the design, it follows straight behind the baler always ready for the next bale. The machine functions independently of the baler allowing for offloading bales on the go without stopping the baler so bales can be added to existing groups. When operating on steep hills the operator can wait until reaching a level spot to off load the bales. This eliminates loading heavy round bales on steep hillsides.

A cab camera system allows the operator to monitor functions of the baler and the "BPS". The patented system has been designed to be operator friendly.

The BPS will be on display at the Sioux Falls Farm Show in South Dakota on Jan 28, 29, 30, 2015 and Cedar Falls Farm Show in Iowa this winter.

BPS videos may be viewed online at YouTube.com / Ag Iron Concepts Bale Positioning System or other videos listed under Dan Monahan.

For more information contact: Dan Monahan/Sales at 507-272-3447 or email: [balepositioningsystem@gmail.com](mailto:balepositioningsystem@gmail.com)

### BALE POSITIONING SYSTEM



- Group round bales at a convenient location
- No steep hillside loading
- No more scattered bales
- Faster, more efficient bale collection
- Gives custom operators a competitive advantage
- Reduces traffic and soil compaction

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# Tebben Enterprises

## 50 Years of Helping Farmers

In 1964, John Tebben saw the need for a better row crop cultivator and began designing. That was the birth of Tebben Manufacturing. He started with a cultivator along with rolling, tunnel and open top shields. John's next step in helping farmers produce was to design a fall tillage machine used to break up hardened and compacted soil – the deep till. Tebben Manufacturing's deep till utilizes an automatic reset shank assembly that trips over rocks and other obstacles without the need to replace broken shear bolts. In 1975, the first Tebben Deep Till rolled off the assembly line, and to this day many of the original-design units are still in use.

In 1993 John's son, Michael, formed Tebben Enterprises Inc., keeping the family owned business just that – a family owned business.



Throughout the 50-year history of Tebben Enterprises, they have been committed to building quality products and adding to their line of products that continue to help the farmers. Tebben Enterprises now also offers a full line of 3-point rotary cutters along with other 3-point and skid loader attachments. Their most recent product offering is the Tebben Land Roller. This implement levels a field after planting by pushing rocks and root balls into the ground allowing for increased harvesting efficiency. The Tebben Land Rollers are available from 7 feet through 21 feet in single section widths. Their 3-section folding land rollers are available from 31 feet through 62 feet.

For more information on Tebben Enterprises and how they can help you, call (320) 847-2200 or visit their website at [www.tebben.us](http://www.tebben.us). And if you happen to be in the area, you are welcome to stop by for a visit at 10009 Highway 7 SE, Clara City, MN 56222. They'll be happy to show you around.

## TEBBEN LAND ROLLER



The Tebben Land Roller levels fields by pushing rocks, root balls and residue evenly across the surface for better harvesting efficiency and less combine downtime.



### Features

- 42" Diameter Tubes - .600" Wall
- Rear wheel hydraulic steering standard
- Heavy duty four bolt flange bearings with 2-7/16 replaceable shafts
- Optional hydraulic hitch package available
- Sizes available include: 7', 17', 21', 31', 33', 41', 42', 45', & 52'



**Tebben Enterprises**  
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# Phase-A-Matic, Inc.

## Rotary Phase Converters

### 3 Phase Power Anywhere!

Phase converters are used when three-phase lines are not available or are cost prohibitive. The phase converter will run virtually any 3-phase machine at any single-phase location.



#### APPLICATIONS

**Phase-A-Matic, Inc. Rotary Phase Converters** provide the power necessary to run all load types - including CNC/PLC, transmitters, lasers, welders, battery chargers, heating elements, etc. Whatever the load type - motor, resistive, induction, or transformer load - our Rotary Converter will power it. Phase-A-Matic, Inc. has been providing phase conversion for the home shop machinist, the industrial machinist, the farmer in agricultural use, for food processing equipment, the woodworking industry, the metalworking industry, medical equipment, elevators, etc. The Rotary Converter is designed to operate as modules with the ability to be connected in parallel to produce any required output, no matter how large. With fuel prices skyrocket-

ing, diesel generators are now being replaced by Phase-A-Matic, Inc. Rotary Phase Converters. Bring your request to us and we will supply the right conversion for your application.

#### TRANSFORMERS

Phase-A-Matic, Inc. also has available all sizes of transformers: single-phase and three-phase 50/60 Hz, all voltages, step-up and step-down, including custom made for special applications.

#### ABOUT US

Product lines began in 1965 with the well-known **STATIC CONVERTER**, the workhorse for tens of thousands of regular shop machines, such as mills, lathes, etc. The **ROTARY CONVERTER FULL POWER** line is a true phase converter jointly developed with Baldor Electric and built to our stringent specifications for high performance and proven long-term dependability. It is the quietest rotary converter on the market, and the best quality available anywhere. It meets your concerns in delivering the critical uptime and reliability that your business requires.

#### COMPANY REPUTATION & BENEFITS

Professional, available technical support for proper sizing and installation, consistent product reliability and immediate delivery from stock for most items are core components of the strength of the company and its esteemed reputation.

**Phase-A-Matic, Inc.** phase converters individually range from 1/3 to 100 HP. Greater HP is achieved by adding Rotary Converters in parallel for the combined output needed. We have the right converter to meet your needs in delivering economical, reliable and true 3-phase power of the highest quality, thus providing the dependability and uptime you must have.

Phase-A-Matic, Inc. [www.phase-a-matic.com](http://www.phase-a-matic.com)



## Corn Stalk Guide By Kaler Farms

"I don't want to lose my corn" is the response Joel Kaler of Kaler Farms gives when asked if he has done a "test" study to see how much corn he is losing. "That would be the point...I don't want to lose any, so I watched the problem and made the Corn Stalk Guide. It started just for my farming operation, but others wanted them so we started making them."

The aftermarket attachment is placed on the snout above the front of the idler chain and sprocket to guide the corn to pass smoothly and to be grabbed more efficiently. The corn stalk is not being jerked, shook, or flung. The farmer now has his corn safely in the combine rather than on the ground. Plus, the Corn Stalk Guide is meant to be used in both standing corn and lean-

ing corn....it helps move the stalks into rows more smoothly.

Kaler has also found that because of the material the Guides are made from, the poly snouts are not wearing as fast. "More money saved," indicated Joel. In addition to those savings, it has also helped save the snouts from bending and cracking because it will add some strength. These American-made products are an added benefit to the agricultural world.

Kaler Farms will be attending several farm shows in the Corn Belt area this summer. The Kalers encourage you to stop and visit with them. If interested in the Corn Stalk Guide, contact Kaler Farms at [kalerfarms@gmail.com](mailto:kalerfarms@gmail.com) or visit their website, [www.kalerfarms.com](http://www.kalerfarms.com)



# Nelson Irrigation Corporation Introduces the 1000 series – a new line of control valves made for the 21st century

For over 25 years, Nelson Irrigation Corporation has perfected the sleeve-style valve with the continued development of the 800 Series Control Valve product line. Known world-wide for their hydraulic efficiency and high performance, Nelson's 800 Series Valves are used in a variety of applications under demanding conditions in agricultural and environment control systems. In October of 2010, Nelson engineers launched an R&D project to develop the next generation of sleeve-style valves. They aimed at addressing critical irrigation issues and raising the bar for valve performance – the result is the new 1000 Series.

1000 Series Valves save energy with higher flow capacity and lower friction loss – better than any other valve on the market. They also have more precise and stable pressure regulation over a wider range of flow and with minimal pressure differential required across the valve.

A modular design provides ultimate flexibility in valve style and connection type while simplifying installation, troubleshooting and maintenance – great for the grower, installer and system designer!

Choose from 3 different flow path options: inline, tee and elbow. Choose from 5 inlet/outlet styles: Proprietary Nelson "Flex-Connect" Ends – interchangeable design allow for "mixing & matching" ends.

- 1 ¼", 1 ½", 2" npt or bsp
- 3" Splined Connection
- 2" and 3" Victaulic

Wafer Style

- 2" ANSI Flange
- 2 x 3" Flange Adapters – allows installing a 2" valve directly between 3" flanges.

The "Flex-Connect" approach allows for "mixing and matching" ends. Example: On an inline valve you can choose a 3" victaulic inlet and a 2" victaulic outlet. Nelson valve sizes should be selected based on flow needs as opposed to pipe sizes. Because of the high level of efficiency it is common to select a 2" valve when using 3" pipe.

1000 Series valve applications include zone control for sprinkler or drip irrigated row crops, nursery crops, orchards and vineyards. The valve fits perfectly under a Big Gun® for solid set irrigation, end of pivot solutions and a variety of environmental controls including fire suppression, dust suppression and cooling.

The unique design of the 1000 Series Valve will change the way systems are designed and managed.

*Nelson Irrigation Corporation (NIC), headquartered in Walla Walla, Washington U.S.A., plans, designs, manufactures and sells proprietary products for the irrigation equipment market. The mission statement has remained the same for 40+ years. Save water, save energy and do a better job of irrigating.* 

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**BEFORE:** Lots of area for corn  
to fall away from the head

**After:** The Corn Stalk Guide  
narrows the area to guide the  
corn into the head.

The Corn Stalk Guide is an aftermarket corn head  
attachment designed to aid in the harvesting of your corn.

- Saves your valuable potentially lost corn
- Protects the soft poly corn snouts
- Strengthens if "snout-digging"



The Corn Stalk Guides are made to use on most poly snouts with 30" and 22" rows, including some twin rows. Kaler Farms also has products for metal snouts. All sets are easily attached with the included hardware and directions.

Joel and Jaci Kaler  
9650 Hwy. 18  
Lidgerwood, ND 58053  
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[kalerfarms@gmail.com](mailto:kalerfarms@gmail.com)  
[www.kalerfarms.com](http://www.kalerfarms.com)

## Vita Flex introduces Gingersnap Spice Flavored AccuLytes™

Just in time for fall and just in time for the competitive winter horse show season, equine athlete supplement company Vita Flex introduces its new gingersnap spice flavored electrolyte supplement. The product passed its palatability test at 100% palatability, proving that horses are just as enthusiastic as humans are about the current “Fall Spice” flavor craze. The tasty AccuLytes™ electrolyte is the one-step solution to replacing vital electrolytes that horses lose through sweat as they train and compete during this exciting season.



Vita Flex, based in Phoenix, Arizona, takes pride in placing effective and useful supplements on the equestrian sport market. The company's electrolyte supplement AccuLytes™ keeps riders' horses in top performance condition by replen-

ishing the necessary electrically-charged minerals (called electrolytes) that horses lose when sweating. During periods of strenuous exercise, hot temperatures, or humidity, equines need the sodium, chloride, potassium that the AccuLytes™ electrolyte supplies them with. These minerals, which are naturally lost through sweat, are vital to the horse's ability to function. They support the horse's muscles, circulatory system, nerve impulse transmissions, pH balance, and other fundamental processes.

Equestrians who use AccuLytes™ electrolyte during prolonged exercise can count on their horses' health and not worry about their equine athlete becoming fatigued too quickly. The gingersnap spice flavored AccuLytes™ supplement is a delicious way to step into the fall and winter seasons with a worry-free attitude and a happy, healthy horse.

Vita Flex is excited to introduce its gingersnap spice flavored AccuLytes™ supplement, which was formulated by an equine nutritionist. The company provides numerous advanced supplements specifically created for equine athletes. Vita Flex offers products such as health supplements, including hoof health formula and calming supplements; antioxidants, including selenium and Foal Response™ Supplement; electrolytes, including AccuLytes™ formula and AccuLytes™ paste; joint supplements, including Equinyl™ Combo and Vita Flex® MSM; performance supplements, including Hard Keeper™ Solution and DMG; topical ointments, including liniment gel and hoof conditioner; and vitamins and minerals, including amino acid supplement and Vitamin C.

For more information about Vita Flex, gingersnap spice flavored AccuLytes™ electrolyte supplement, and the company's other products, visit [www.vitaflex.com](http://www.vitaflex.com) or call (800) 848-2359.

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We offer 3 sizes ranging from the **Standard:** 40-50 cow/calf capacity, **Large:** 80-100 cow/calf capacity, and our **Super Large:** 140 cow/calf capacity. Our corrals offer the most versatility in pen size and configuration. John McDonald is the original designer of the Rawhide Portable Corrals and has really outdone himself with this new design.

The Processor has a permanent sheeted adjustable alley to aid with working your livestock on site and in the field. The

adjustable alley can be sized from 30" down to 16" either manually or hydraulically. We offer the option of mounting a head gate to the end of the alley for easy, on site cattle processing. You can even add a self contained loading chute to the system.



If you like to lure your cattle with feed, a pickup can be driven completely through and out the opposite end of the Rawhide Processor. Each panel section has its own solid rubber

wheel, resulting in no flats. Our corral has several man/pass gates to aid in human movement about the system. The Rawhide can form 2, 3 and even 4 pens to aid with sorting your livestock.

The Rawhide Processor is easy to set up, utilizing electric over hydraulic cylinders on the back end and the front of the unit: The 16" transport wheels are permanent, retracting up and down with the flip of a switch. No more unpinning the wheels and sliding them off the axles and rolling out of the way. This model comes as a gooseneck only and there is a self contained power unit with long life marine battery and a solar panel mounted atop.

Please check out our website for more information and to view our video: [www.rawhideportablecorral.com](http://www.rawhideportablecorral.com) or call 785-263-3436.



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# Deaton Nutrition Inc.

## How Multi-Sile II Inoculant can save your money

After generations, farming is still a margins game. Profit or loss can base on a big gamble or just a little bit of bad weather. Waste is always a concern. Farmers and ranchers have done the best they can, but everyone needs help from time to time.

25 years ago, Deaton Nutrition, Inc. started out as one-person company doing rations to improve feeding. They have expanded to include crop specific inoculants sold in 28 states and 2 countries. Every employee has either worked on or grown up on a farm. They work with everyone from hobby farms to custom operators to thousand+ cow dairies. They also have a line of custom made applicators. "We are a customer service based company. If our customers aren't happy, then we aren't happy."

"As I nutritionist, I saw a growing need for high quality forage." We have perfected a formula that is both effective on crops and easy to apply. Treating feed and crops with a high quality inoculant is one of the best investments you can make. With an average return rate of at 6:1, this is a gamble most would say is worth taking. Returns include:



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operation. Our conservative approach to raising breeding stock has been very successful over time. We believe that profitable cattle must “do more with less” especially in

these times of ever increasing cost of production. Our mature cows consume grass or grass hay for nutritional input while raising powerful calves and maintaining the ability to get pregnant. Unlike many of our competitors, we know which of our animals are efficient because we are managed with this in mind. We are using several new and popular sires to enhance our gene pool and we can trace our cow family lines back for over a century. Our website: [www.chandlerherefords.com](http://www.chandlerherefords.com) highlights our program and the sires we are using in detail so feel free to visit and sign our guest book.

With all this past performance history from thousands of registered calves raised here, we know what our cattle are capable of. We have sold cattle to customers in nearly every state in the union. Their feed efficiency and fertility is really evident when they are asked to perform in less than ideal forage or environmental conditions. If you are looking for no compromise Hereford cattle with a history dating back for over a century then look no further. It is what we are all about. We have stood the test of time and we are here to stay.



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The Elite Parallel Stall is our signature stall

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- Counter weights are used on our patented divider gates. Nothing is spring loaded.
- This stall is offered on 26" centers for jersey cows only, 27" centers for mixed herds or holsteins, or 28" centers for holsteins.

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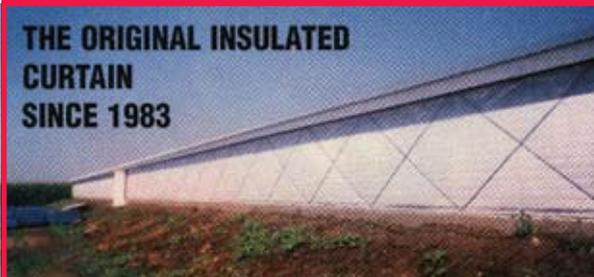
Our 200 pound capacity feeder is applicable to all ATV models. Our optional mounting hardware allows for adaptability on UTVs. Our 400 pound capacity feeder is designed for UTV mounting and comes with the necessary hardware for mounting to your UTV. Please note that optional hardware is available depending on the type of UTV you may own.

Our 600 pound capacity feeder is auger fed and comes equipped with a 3” auger; a 12 volt motor that works off a battery; and a 10’ on demand hand held switch for ease of use from the seat of your UTV. **THIS FEEDER IS NOT MOUNTABLE TO ANY ATV.**

Give us a call at 870-437-5743 or toll free at 800-369-4131 and we'll be glad to discuss any questions you may have. Visit our web site at [www.stullfeeders.com](http://www.stullfeeders.com)

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their families! That is why De Dell is proud to offer 35 leading edge Non-GMO corn hybrids, including 5 silage specific hybrids and 6 certified organic hybrids. These hybrids are proven in the market place as in the example of DL 1960 which makes up almost one third of De Dell's total sales with its excellent yield potential, strong drought tolerance and great nutritional value. It is an all-around good hybrid that excels at both grain production and silage capabilities. Another choice that De Dell is proud to offer the farmer is which type of seed treatment they would like. While most of the industry adopted the controversial neonicotinoid based insecticide seed treatments, De Dell offers the treatment as a choice to farmers who have insect problems but continued to use a fungicide seed treatment as their standard. They believe that the decision whether or not to use the insecticide should be left up to the individual farmer because they will know which fields have a problem with insects and which ones do not. It's all about choices and alternatives!

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With a growing community of "GMO Free Farming" De Dell Seeds is looking to expand our team of dedicated Sales Representatives.

De Dell Seeds is an independent, family owned and operated seed corn company established in 1999 in London, Ontario.

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# Texas Animal Health Commission Test Equine in Brooks County for Piroplasmosis



The Texas Animal Health Commission (TAHC) designated Brooks County as a high risk county for exposure to Equine Piroplasmosis

(Piroplasmosis or Piro) and begin testing equine (horses, donkeys, mules, ponies and zebras) in Brooks County on November 14, 2014.

Equine Piroplasmosis is a blood-borne protozoal disease that affects all equine. Piroplasmosis can be transmitted from positive equine to negative equine by blood transfer from dirty instruments or insect carriers, such as ticks. Piro is not transmissible to humans.

High risk areas were established for Kleberg and Kenedy counties in 2013, where subsequent testing of resident equine found 28 animals tested positive and were diagnosed with Piroplasmosis. A number of tick species are capable of transmitting the disease and at least one species, *Amblyomma cajennense*, is located in Brooks County. Therefore Brooks County, having the disease vector and being adjacent to Kleberg and Kenedy counties, is considered to be at high risk for Piroplasmosis and designated for testing.

“Equine Piroplasmosis is considered a foreign animal disease in the U.S., however, new cases continue to be discovered in South Texas,” Dr. Dee Ellis, State Veterinarian, said. “The TAHC is asking for the support of equine owners and veterinarians to make this testing effort a success and help assure the health of the equine population.”

Brooks County equine owners and veterinary practitioners may contact the TAHC Region 5 Office at 1-361-358-3234 with questions or to schedule testing. For more information on Piroplasmosis visit the Texas Animal Health Commission website at: [www.tahc.state.tx.us/animal\\_health/equine/piro.html](http://www.tahc.state.tx.us/animal_health/equine/piro.html).

*Founded in 1893, the Texas Animal Health Commission works to protect the health of all Texas livestock, including: cattle, swine, poultry, sheep, goats, equine animals, and exotic livestock.*

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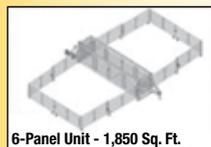
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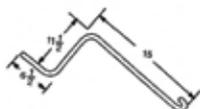
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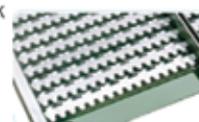


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## 2008 Ocmis R2/1 Hose Reel



\$18,000 USED - LOCATED IN WASHINGTON  
CALL FOR DETAILS

## 2013 Ocmis VIR8



ALL HYDRAULIC, ALL EXTRAS, 5" OD x 1476'  
\$63,500 - 1 IN GEORGIA, 1 IN SOUTH CAROLINA

## 2012 Ocmis VR5



ALL HYDRAULIC, 4.1" x 1250'  
\$32,500 - 1 IN GEORGIA, 1 IN SOUTH CAROLINA

## 2008 Ocmis VIR6 125/440



AS NEW, 4" x 1443' TURBINE  
\$47,500 WESTERN U.S.

## 2012 Ocmis VR5 125/380



ALL HYDRAULIC, TANDEM AXLE TRAVELER,  
4.1" x 1250' - \$37,500 GEORGIA

## 2012 Ocmis VR5 125/380



ALL HYDRAULIC, TANDEM AXLE TRAVELER,  
4.3" OD x 1250' - \$35,500 GEORGIA

**CALL FOR MORE SYSTEMS & AVAILABILITY**  
**OCMIS, REINKE, BAUER, JOHN DEERE, CADMAN, & MORE!**